Title (en)

HEAT SOURCE ROD PRODUCTION MACHINE AND ITS PRODUCTION METHOD

Title (de)

HITZEQUELLENSTABPRODUKTIONSMASCHINE UND DEREN HERSTELLUNGSVERFAHREN

Title (fr)

MACHINE DE PRODUCTION DE TIGE DE SOURCE DE CHALEUR ET SON PROCEDE DE FABRICATION

Publication

EP 1808087 A1 20070718 (EN)

Application

EP 05793434 A 20051017

Priority

- JP 2005019015 W 20051017
- JP 2004309743 A 20041025

Abstract (en)

A manufacturing machine manufactures a heat-source rod having a rod-like extrusion-molded article made from a combustible material with axial grooves in the cylindrical surface thereof and a heat-insulating web enveloping the article, and is provided with a apparatus 10 for spouting water to the web W in the process of the web W being fed to a wrapping section 4. The spout apparatus 10 includes an air vibrator 12 with a vibrating rod 34, and a flexible nozzle 36 attached to the rod 34 to extend across the rod 34 and supplied with water from a rate regulating pump 42. While the web W is being fed, the end of the nozzle 36 spouts water to the web W, reciprocating widthways relative to the web W due to vibration of the rod 34, and the water spouted dissolves a binder used in the web W to bind heat-insulating fiber, thereby forming a wet band H, where the wet band H has a waveform continuing along the longitudinal direction of the web W and provides a adhesive region for bonding the article.

IPC 8 full level

A24B 15/00 (2006.01); **A24C 5/00** (2020.01); **A24D 1/22** (2020.01)

CPC (source: EP KR US)

A24B 15/00 (2013.01 - KR); **A24B 15/165** (2013.01 - EP US); **A24C 5/00** (2013.01 - EP); **A24D 1/22** (2020.01 - EP US); **B29C 48/06** (2019.01 - EP US); B29C 48/00 (2019.01 - EP US)

Cited by

EP3469935A1; US11744296B2; WO2019162815A1; WO2015127412A1; WO2013131764A1; WO2015022597A1; US10729169B2; WO2015123202A1; US10094562B2; WO2015164255A1; US11080739B2; US11717018B2; WO2017042297A1; WO2017098464A1; US10314334B2; US10874140B2; US9788571B2; US10194691B2; US10314330B2; US11197496B2; US11375745B2; US11707083B2; US12089628B2; WO2017040608A2; WO2019077530A1; EP4338630A2; WO2017004185A2; US10154689B2; EP3815551A2; WO2015123558A2; US9833019B2; US10470497B2; US10588352B2; US10609961B2; US10856570B2; US11083857B2; EP4427617A2

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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